

SI 3CT LP

FULL-RANGE CEILING SPEAKERS WITH
4" LOW PROFILE BACK CAN AND TRANSFORMER

System INTEGRATOR[®]
S P E A K E R S E R I E S

- 3" (7.6 cm) full-range driver with a tuned port
- 4" (10.2 cm) deep low profile metal back can for plenum environments
- Wide 170° conical dispersion
- 8 ohm direct, 70 volt, and 100 volt operation
- 6 position, behind-the-grille power selector
- 16 watts continuous pink noise, 32 watts continuous program
- Locking arms for quick ceiling installation
- UL plenum rated
- Includes C-ring & V-rail kit
- 5 year parts and labor warranty



The Extron SI 3CT LP is a full-range ceiling speaker featuring a low profile back can and transformer. A full-range driver, coupled to an exclusive conical baffle delivers very wide room coverage as well as wide frequency response for accurate voice and music reproduction. This System Integrator[®] Series speaker is ideally suited for small to medium classrooms with lower ceilings and low to medium power requirements.



Extron[®] Electronics

www.extron.com

DESCRIPTION

The Extron **SI 3CT LP** is a full-range ceiling speaker featuring a 4" (10.2 cm) LP - Low Profile metal back can for use in plenum ceilings. The low profile speaker is an excellent choice for ceiling installations with tight above-the-ceiling tile space issues, such as air handling units installed close to the ceiling. The 3" (7.6 cm) full-range driver features an incredibly wide frequency response of 75 Hz to 17 kHz, 16 watts continuous pink noise or 32 watts continuous program capacity, and an extremely wide conical dispersion of 170°. The SI 3CT LP is ideal for small to medium classrooms with lower ceilings and low to medium power requirements.

The SI 3CT LP features an exclusive conical baffle that provides a wider room coverage pattern, which is important for rooms with low ceilings. This design reduces "beaming" of mid and high frequencies directly under the speaker. Voice intelligibility is critical for classrooms and many other applications, and the SI 3CT LP provides excellent voice clarity without compromising music reproduction.

The SI 3CT LP offers both direct 8 ohm or 70/100 volt operation with a behind-the-grille, six position power selector switch. In the 8 ohm direct position, this speaker is designed for use with our MPA 122 Integrated Mini Power Amplifier in small to medium low ceiling classrooms requiring two to four wide dispersion speakers for maximum room coverage.

Many system designers desire 70/100 volt operation for multiple speakers and long speaker wire runs when the amplifier is remotely located. For small to medium classrooms, the SI 3CT LP is designed for use with the MPA 181T 70 volt Integrated Mini Power Amplifier. For room balancing with 70/100 volt systems, the behind-the-grille power selector switch allows for 16, 8, 4, 2, and 1 watt settings in 70 volt operation and 16, 8, 4, and 2 watt settings for 100 volt operation.

Four locking arms allow for a fast, secure hard ceiling installation. The SI 3CT LP includes mounting hardware to facilitate installation in a suspended T-bar ceiling. It features a white grille and bezel that can be painted to match the architectural elements of the environment.

FEATURES

- 4" (10.2 cm) deep low profile metal back can for plenum environments
- 3" (7.6 cm) full-range driver with a tuned port
- 8 ohm direct or 70/100 volt operation on a 6 position, behind-the-grille selector:
 - 8 ohm direct
 - 70 volt: 16, 8, 4, 2, and 1 watt selectable
 - 100 volt: 16, 8, 4, and 2 watt selectable
- Frequency response: 75 Hz to 17 kHz
- 16 watts continuous pink noise, 32 watts continuous program
- 170° conical dispersion
- Locking arms for quick ceiling installation
- UL plenum rated
- Includes C-ring & V-rail kit
- Grille and bezel are available in white only and may be painted to match environment
- 5 year parts and labor warranty

SPECIFICATIONS

AUDIO/ACOUSTIC AND ELECTRICAL

Speaker type	Low profile ceiling speaker with metal back can
Frequency response	75 Hz to 17 kHz, -10 dB, half space
Power capacity.....	16 W continuous pink noise 32 W continuous program
Nominal sensitivity.....	83 dB SPL, 1 W, 1 m, 16 W tap, half space
Nominal coverage angle	170° conical coverage
Nominal impedance	8 ohms
Rotary switch taps.....	70V: 16 W, 8 W, 4 W, 2 W, 1 W 100 V: null, 16 W, 8 W, 4 W, 2 W
Driver.....	3" (76 mm) paper cone
Input connector	(1) 5 mm captive screw connector, 4 pole for 1 input and 1 loop-through

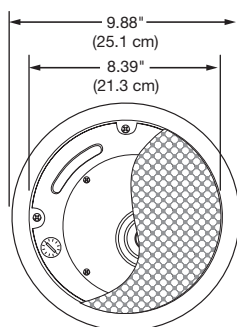
GENERAL

Package	2 speakers (1 pair)
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Mounting.....	Ceiling mountable with included hardware: V-rails for 2' x 4' (600 mm x 1200 mm) ceiling tiles, and C-rings
Enclosure type	Metal back can; high-impact, fire-resistant (UL94V-0) plastic baffle/rim
Enclosure outer dimensions	4.0" H x 9.9" diameter (102 mm x 251 mm diameter)
Cutout dimensions.....	8.937" diameter (227 mm diameter)
Product weight	6 lbs (2.7 kg) each
Shipping weight	22 lbs (10 kg) per pair with mounting kit package
Listings.....	UL 2043, UL1480
Compliances	CE, NFPA90, NFPA70A
Warranty	5 years parts and labor

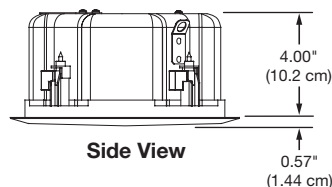
NOTE: All nominal levels are at ±10%.

Model	Version Description	Part Number
SI 3CT LP	Ceiling Speakers - 4" Back Can, Pair.....	42-103-03

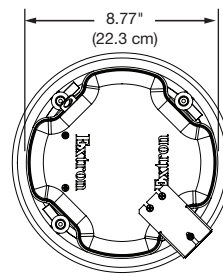
DIMENSIONAL DRAWINGS



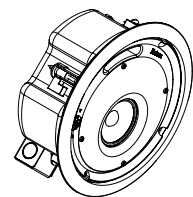
Front View



Side View



Rear View



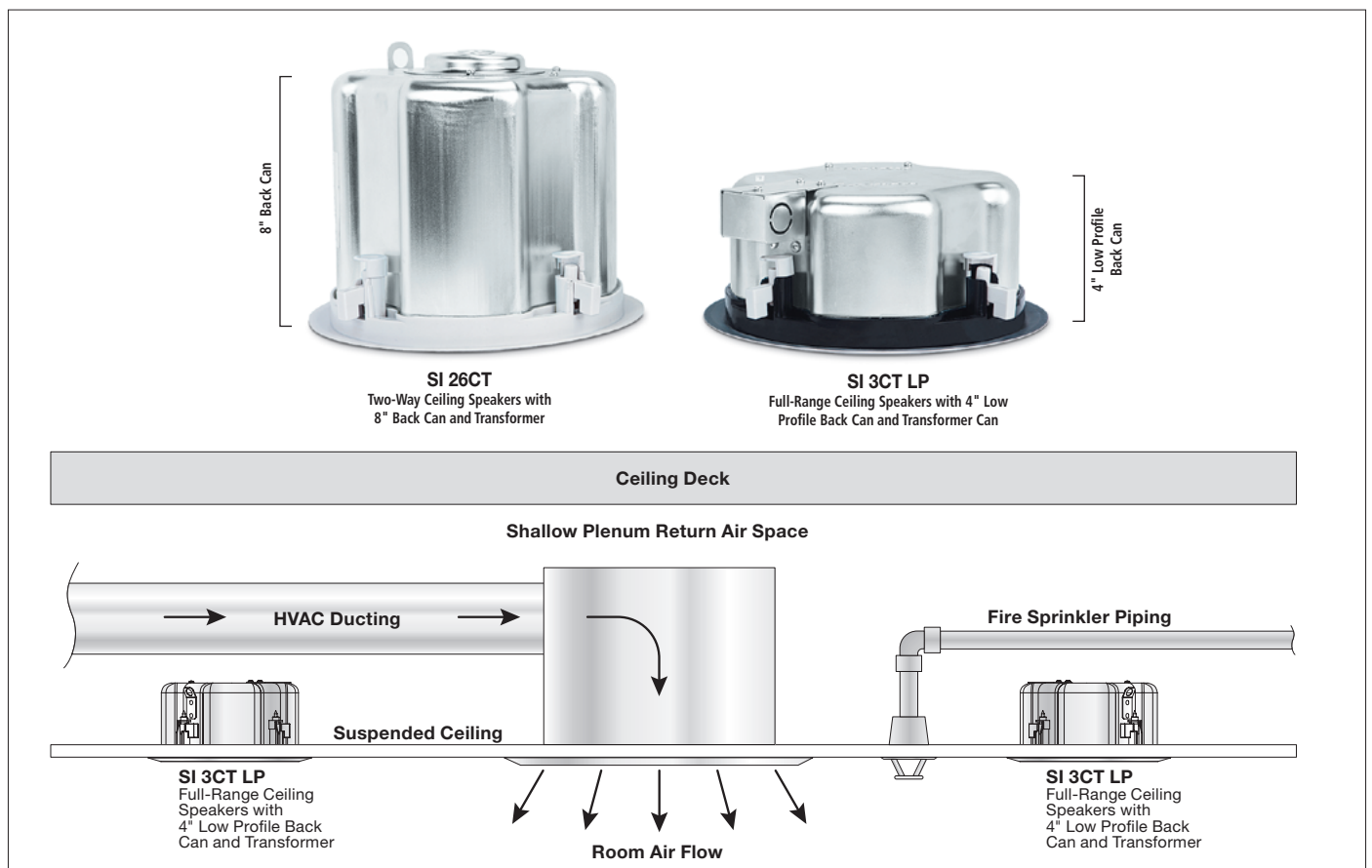
Isometric View

FEATURES

Conical Baffle

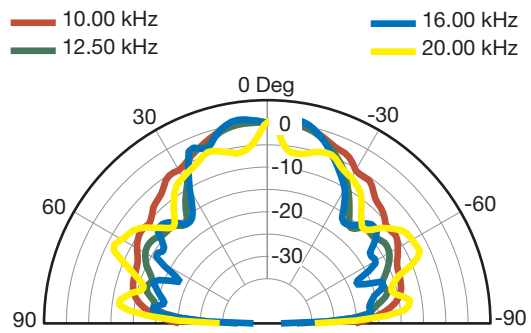
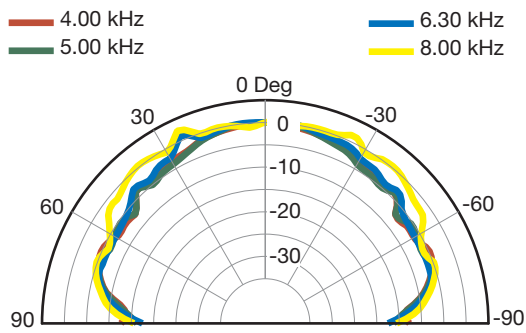
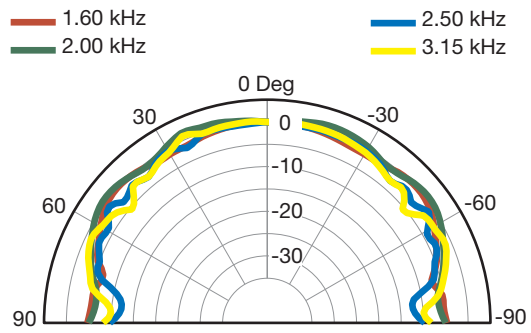
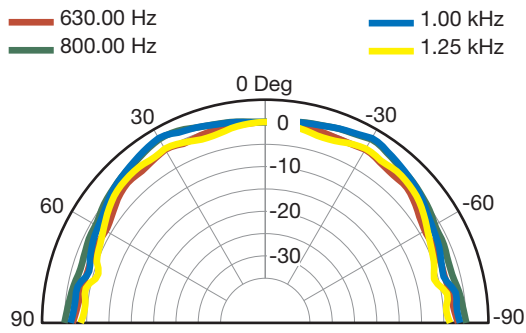
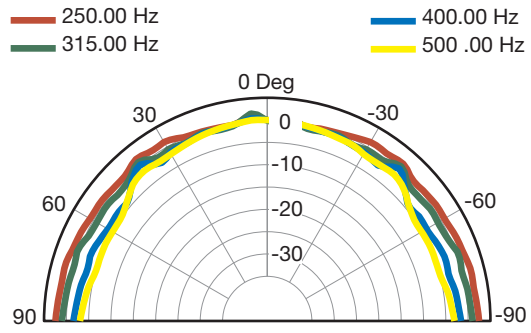
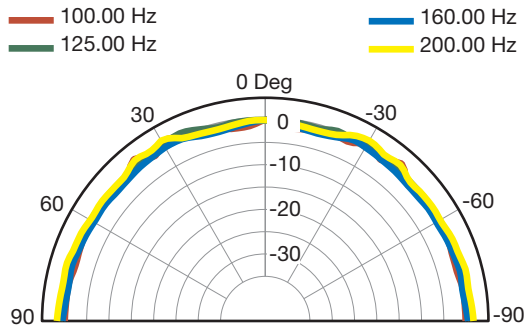
In small to medium-sized classrooms with low ceilings, midrange and high frequencies are likely to be confined or "beamed" within an area directly beneath each ceiling speaker. As a result, some listeners will hear the audio clearly while others may not.

To address this issue, the SI 3CT LP has been designed with a 3" full-range driver that is acoustically coupled to an Extron exclusive conical baffle. This baffle serves as a waveguide to help create a wide dispersion profile of 170°. With this very broad conical spreading of the mid and high frequencies, a system of SI 3CT LP speakers will ensure consistent volume levels for everyone in the room while delivering increased intelligibility and accurate music reproduction.



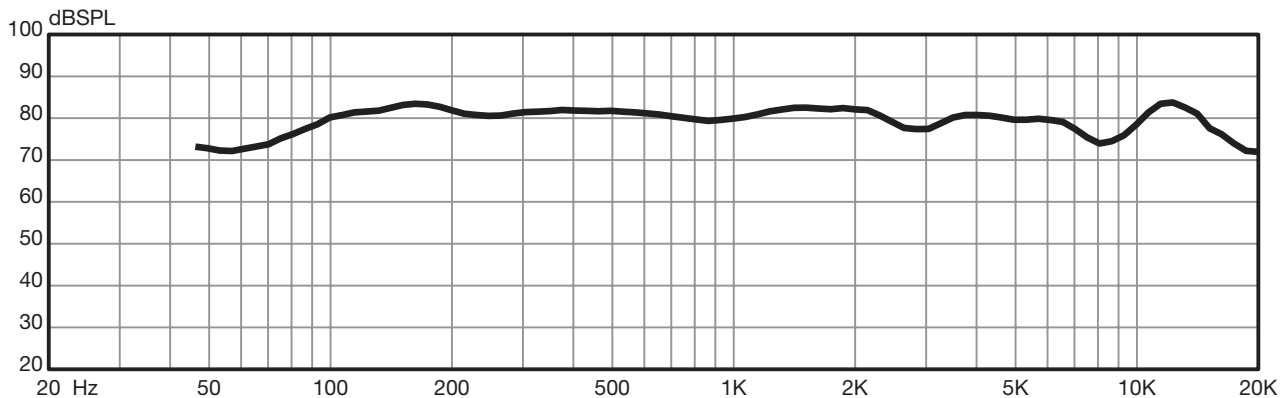
Low Profile Back Can

The SI 3CT LP features a special 4" low profile back can for installation in plenum ceilings where the presence of HVAC ducting, fire sprinkler piping, or limited spacing above the suspended ceiling would hamper placement of a ceiling speaker with a more conventional back can such as the SI 26CT. The specially designed 3" full-range driver of the SI 3CT LP works together with the low profile back can to deliver wide frequency response as well as wide conical dispersion for optimal sound reproduction in classrooms and other environments.

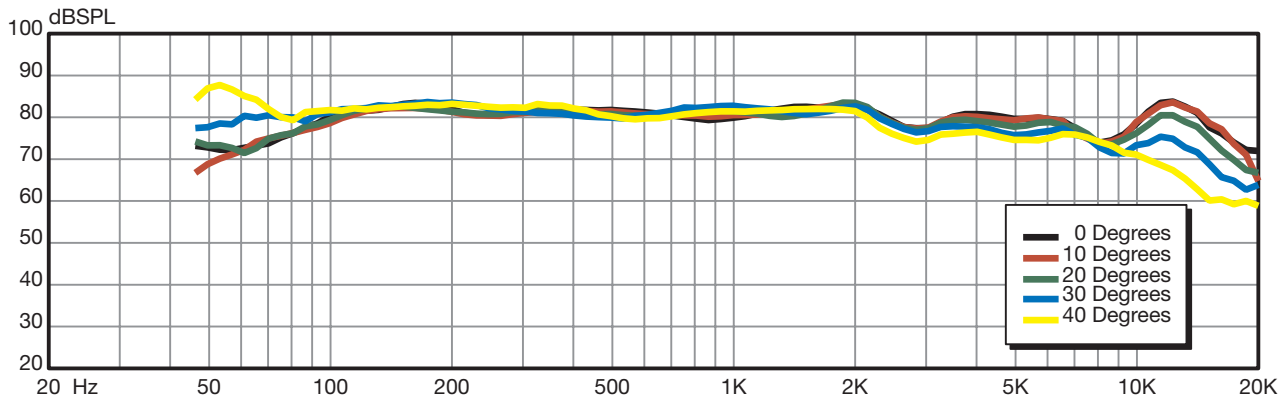


RESPONSE GRAPHS – FREQUENCY AND IMPEDANCE

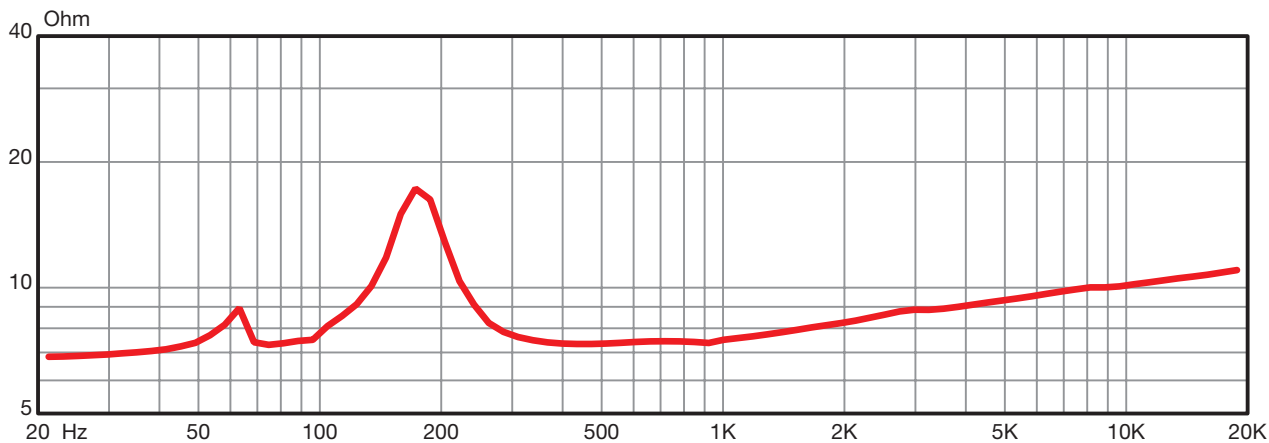
SPL VS. FREQUENCY – 1 WATT @ 1 METER RESPONSE, HALF SPACE (2π)



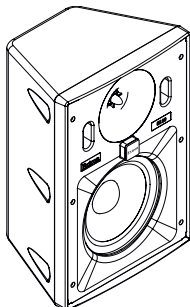
SPL VS. FREQUENCY – HORIZONTAL OFF-AXIS RESPONSE, HALF SPACE (2π)



IMPEDANCE VS. FREQUENCY

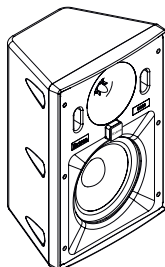


SURFACE SPEAKERS



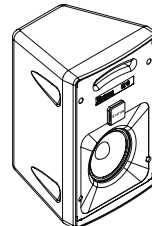
SI 28

8" (20.3 cm) Woofer
1" (2.5 cm) Tweeter
50 Hz to 20 kHz
180 Watts Cont. Prog.



SI 26

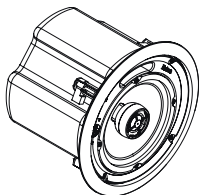
6.5" (16.5 cm) Woofer
1" (2.5 cm) Tweeter
70 Hz to 20 kHz
150 Watts Cont. Prog.



SI 3

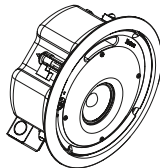
3" (7.6 cm) full range
75 Hz to 17 kHz
32 Watts Cont. Prog.

CEILING SPEAKERS



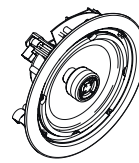
SI 26CT

6.5" (16.5 cm) Woofer
1" (2.5 cm) Pivoting Tweeter
70 Hz to 20 kHz
150 Watts Cont. Prog.
Plenum Rated 8" Back Can



SI 3CT LP

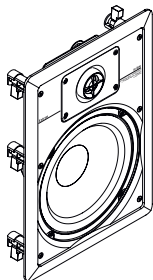
3" (7.6 cm) Full Range
75 Hz to 17 kHz
32 Watts Cont. Prog.
Plenum Rated 4" Back Can



SI 26X

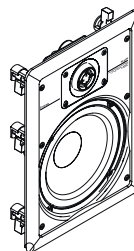
6.5" (16.5 cm) Woofer
50 Hz to 20 kHz
50 Watts Cont. Prog.

IN WALL SPEAKERS



SI 28W

8" (20.3 cm) Woofer
1" (2.5 cm) Tweeter
30 Hz to 20 kHz
70 Watts Cont. Prog.



SI 26W

6.5" (16.5 cm) Woofer
.75" (1.9 cm) Tweeter
40 Hz to 20 kHz
60 Watts Cont. Prog.



Extron Electronics, USA
1230 South Lewis Street
Anaheim, CA 92805
800.633.9876 714.491.1500
FAX 714.491.1517

Extron Electronics, Europe
Beeldschermweg 6C, 3821 AH Amersfoort
The Netherlands
+800.3987.6673 +31.33.453.4040
FAX +31.33.453.4050

Extron Electronics, Asia
135 Joo Seng Rd. #04-01
PM Industrial Bldg.
Singapore 368363
+65.6383.4400 FAX +65.6383.4664

Extron Electronics, Japan
Kyodo Building, 16 Ichibancho
Chiyoda-ku, Tokyo 102-0082
Japan
+81.3.3511.7655 FAX +81.3.3511.7656